

Abstract of the Disclosure:

A configuration and method for the wire-free supply of electric power to a large number of sensors and/or actuators mounted on a machine includes a micro fuel cell with associated fuel tank integrated into the sensors/actuators and converting the stored fuel, preferably methanol, into electric power to supply the sensor. Also included is a sensor or actuator with such an integrated micro fuel cell and fuel tank. Further included is a system for a machine, in particular an automatic production machine, having a large number of sensors/actuators equipped with a transmitting device and/or receiving device communicating through radio signals with a central transmitting and/or receiving device connected to a process computer belonging to the machine, and a micro fuel cell with associated fuel tank integrated into the sensors/actuators and converting the stored fuel into electric power to supply the sensor.

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